BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

Technical Specification of LT Polyolefin Heat Shrinkable Tube Insulation covered ACSR Rabbit Conductor

Scope: The Sleeve/Tubes must be specially formulated and cross-linked polyolefin heat shrinkable sleeves of operating temperature from -40 to 120 degree centigrade.

Raw Material: The raw material used must be grafted polyethylene granules. The material must be halogen free.

Shrink Ratio: The shrink ratio of the sleeve needs to be 3:1, such that sleeve takes the shape of the conductor on complete recovery.

Shrink down temperature: The minimum temperature at which the expanded sleeve shrinks is 120 degree centigrade.

Wall thickness: The thickness of the insulation on the conductor must be a minimum of 2.5mm.

Elongation: The sleeve must have an ultimate elongation of 300%

Tensile Strength: The tensile strength of the sleeve must be minimum 10.0 Mpa

Operating temperature: The continuous operating temperature of the material is from -40 to 120 degree centigrade.

DI-Electric Strength: The Di-Electric strength of the material must be a minimum of 14Kv/mm.

Breakdown Voltage: The breakdown voltage of the material must be minimum of 40KV.

The thickness, Breakdown voltage and Dielectric strength need to be tested in CPRI in accordance with the technical specification 09-13, ISSUE 1:1981 of ENERGY NETWORKS ASSOCIATIONS with latest updates if any.

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